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SERVICE MANUAL

CDTV

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INTERNATIONAL EDITION

SERVICE POLICY AND PART NUMBER INFORMATION MAY VARY ACCORDING TO COUNTRY. SOME PARTS MAY NOT BE AVAILABLE IN ALL COUNTRIES.

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SCHEMATIC #252605, REV. A	_

1.1 SPECIFICATIONS

CENTRAL PROCESSING UNIT

MC68000 (Motorola) 16/32 bit main CPU

CPU SPEED

7.15909 MHz (NTSC); 7.09379 MHz (PAL)

NOTE: CPU speeds can vary when using an external system clock such as with genlocking units.

CUSTOM CHIPS

3 Amiga-specific custom chips (Agnus, Paula and Denise) which enhance system performance by taking over tasks such as handling video, sound, direct memory access (DMA) and/or graphics.

OTHER CUSTOM CHIPS

CDTV will also have other custom chips for handling the CD-ROM interface and IR control.

MEMOKI

1 MB (Megabyte) chip RAM; 2K non-volatile RAM reserved for system (clock, prefs, etc.); 512K ROM

INTERNAL SLOTS

Intelligent video slot (for optional genlock, RF board, etc.) 15 pin edge connector; DMA slot -- for SCSI, LAN, etc.

VIDEO OUTPUTS

Analog RGB, Digital RGB (DB-23 connector); Composite video NTSC or PAL (RCA connector); Component video Y-C (S connector type for S-VHS and Hi8); RF Modulated (F connector); Optional genlock capabilities via plug-in module. Three-mode (CDTV, video source or mixed) under software control.

VIDEO DISPLAY (GENERAL)

400 lines/vertical frequency 60Hz (NTSC); 512 lines/vertical frequency 50Hz (PAL); Graphic co-processor with beam synced draw, fill and move modes (blitter); Maximum 1Mb video memory (chip memory); Palette of 4096 colors; Maximum 6 bitplanes; 8 sprites per scanline

OPERATING SYSTEM

Amiga kickstart 1.3 in ROM; ISO 9660 file system handler; High-speed decompression for graphics, audio and other data; CD+G, CD+midi, CDDA support

IR (INFRARED) REMOTE UNIT SPECS

Landscape format

Proprietary high-speed IR signal; Power supplied by 2 AA batteries; 10 numeric keys plus Escape and Enter; Joy/Mouse, CD/TV and Genlock keys; Button for Up, Down, Left, Right and diagonal movement; Two Select (or Fire) keys: A and B; CD audio — Reverse, Forward, Play/Pause, Headphone Volume Up-Down and Stop keys

OPTIONAL ACCESSORIES

External floppy disk drive; Trackball; Personal RAM or ROM card; Genlock; Keyboard; Modem

ADDED RAW KEYBOARD CODES

6C Play/Pause; 6D Stop; 6E Fast Forward; 6F Fast Reverse

MEMORY MAP (IN ADDITION TO IM CHIP A500)

Memory Card

\$E00000-\$E000FF

Non-volatile Memory

\$DC8000

DMAC

Auto config., typically \$E90000

Tri-port

Mapped to DMAC, \$B0

COMPUTER GENERATED AUDIO SPECS

4 independent sound channels (right and left); Complex waveforms; Sound buffer up to 128K, unlimited seamless sound; 8-bit D/A converter plus 6-bit volume control

AUDIO EXTRAS

Capable of sound mapping Amiga over CD-DA sound.

1.1 SPECIFICATIONS (Continued)

REAR PORTS

Centronics parallel interface; RS-232 serial interface; External floppy disk drive interface (Amiga floppy disk drive compatible); Hardwired alternative to IR for keyboard, mouse, joystick; 2 audio output ports (RCA type plug) (requires external audio amplifier); Midi in and out

FRONT PORT

Stereo headphone jack; Port for optional personal RAM/ROM card (256K)

POWER CONSUMPTION

50W (average AC100-240V, 50/60Hz)

ENVIRONMENTAL CONDITIONS

Operating temperature Operating humidity 5C to 40C (non-condensing); 41F to 104F

25% to 80% (non-condensing)

FRONT PANEL DISPLAY

Fluorescent (white characters on black); Time, track and volume level; Clock remains lit when unit is turned off; Display controllable by application

FRONT PANEL CONTROLS

Power On/Off; Headphone volume Up/Down; Play/Pause; Stop; Forward/Reverse -- Scan/Skip; CD/TV; Reset

80 characters/25 lines; 60 characters/25 lines; Various font sizes and types selectable; Screen colors user definable GRAPHICS MODES

(NTSC)		(PAL)	
320 X 200 non-interlaced	32 colors	320 X 256 non-interlaced	32 colors
640 X 200 non-interlaced	16 colors	640 X 256 non-interlaced	16 colors
320 X 400 interlaced	32 colors	320 X 512 interlaced	32 colors
640 X 400 interlaced	16 colors	640 X 512 interlaced	16 colors
plus overscan and HAM mo	des	plus overscan, HAM, etc.	

CD-ROM DRIVE SPECS

Sony/Philips type CD-ROM standard Mode 1, Mode 2

Data readout from disk 153 Kbytes/sec (Mode 1); 171 Kbytes/sec (Mode 2); 2 Megabytes/sec (burst)

Average access time 0.5 sec

Maximum access time 0.8 sec

Soft read error Less than 10e-9

Hard read error Less than 10e-12 Seek error Less than 10e-6

Commands CD-ROM, CD-Audio, CD+G

MTBF 10,000 P.O.H.

Standard supported ISO-9660

Data Capacity 540 MegaBytes (approx.) (about 700 Amiga floppy disks)

CD AUDIO SPECS

8X oversampling

Audio output External 1.4VRMS, 10K OHM

Frequency response 4-20KHz

Signal/Noise - 92DB Channel Separation - 85DB

Harmonic Distortion 0.02% at 1 KHz

Maximum audio capacity about 28 hours - AM quality

Sample Rates variable from CD Audio rate (44KHz) to 6KHz

Dual 16 bit D/A converter plus 64 levels of attenuation

Commodore International Spare Parts List SHIPPING ASSEMBLIES

Commodore part numbers are provided for reference only and do not indicate the availability of spare parts from Commodore. Industry standard parts (Resistors, Capacitors, Connectors) should be secured locally. Part number information may vary according to country, some parts may not be available in all countries. Part Numbers are subject to change, see Parts (Section 2) of current Techniques for entent numbers.

	DTV SHIPPING ASSY		PING ASSY (Continued)
513402-01		363713-02	MODULATOR, COTV PAL
513402-02		363713-01	MODULATOR, COTV NTSC
513402-03		903508-07	CORD, POWER BSI BLACK
513402-04			CORD, POWER UL/CSA BLACK
	NOT USED, USE -04		CORD, POWER VDE BLACK
	IT	903508-02	CORD, POWER SEV BLACK
	NOT USED, USE -06	903508-03	CORD, POWER SAA BLACK
513402-68		903508-10	CORD, POWER JP BLACK
513402-09		390875-01	AUTO RF SWITCH BOX NTSC
513402-10	NOT USED, USE 406		CABLE, RF PAL
		325228-01	AF SWITCH SD
513402-12		252590-01	
513402-13	NOT USED, USE -08	252594-01	REMOTE CONTROLLER COTV
513402-14	NOT USED, USE -06	252592-01	BOX, INDIVIDUAL CDTV
513402-15		252593-01	
513402-16	NOT USED, USE -06	252649-01	
513402-17	NOT USED, USE -06	252595-01	FOAM, PACKING - FRONT
513402-18		252596-01	
513402-19	NOT USED, USE -06	311945-01	CABLE AUDIO
513402-20	NOT USED, USE -06	400807-01	SVC SUB ASSY
513402-21		318882-01	CARD, WARRANTY, CN
368082-02	GUIDE, QUICK CONNECT	368014-01	
250802-01	MAIN ASSY CDA-1, NTSC	320408-04	BAG, FLAT 650MM X 650MM FOR CDTV
250802-02	MAIN ASSY CDA-1, PAL-1	324257-01	BAG, DRYING AGENT
250802-04	MAIN ASSY CDA-1, PAL-G	367669-01	DISK ASSY — CD WELCOME DISK

Commodore International Spare Parts List MAJOR ASSEMBLIES

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	MAIN ASSY COTV		
250802-01		250805-01	REAR PANEL ASSY COTV
250802-01	NTSC	252549-01	PANEL REAR COTV
250802-02	PAL-I SECAM	325552-06	CONN POWER FILTER
250802-04	PALG	252551-01	FAN
250802-05	BLANK CARD	252631-01	GASKET FAN
250802-06	SCART	252552-01 252640-01	METAL COVER SCSI SLOT W/O CARD
250803-01	BOTTOM CHASSIS ASSY CDTV NTSC	252553-01	HARNESS ASSY FAN
250803-02	BOTTOM CHASSIS ASSY CDTV PAL	905476-04	HARNESS ASSY AC INPUT TUBING HEAT SHRINKABLE 4 DIA X 40 L
255077-01	LABEL, RATING COTV		GROUND CABLE ASSY GREEN/YELLOW
366567-01	LABEL, SERIAL#	905800-11	SCREW PH M3 X 35 BLACK
366565-01		906800-05	SCREW PH M3 X 5 BLACK
325090-02		905960-03	NUT HEXAGON M3
366566-01	LABEL, DISK CAUTION	906805-01	SCREW STP FLAT HEAD M3 X 6 BLACK
252665-01	INSULATION SHEET, FLASH MEMORY	907272-01	FLAT WASHER M3
252587-01	COVER, TOP COTV	250807-01	FRONT BEZEL ASSY COTY
252651-01	VIDEO CARD, NTSC	252556-01	
390891-01	VIDEO CARD, PAL FOR 250802-02 SET SW TO PAL-:	252567-01	FRONT BEZEL COTV
390932-01	VIDEO CARD, SECAM FOR 250802-04 SET SW TO PAL-G ON VIDEO	252568-01	DOOR GADDY COROM DRIVE SPRING DOOR CADDY
363714-01	CARD 390891-01	252569-01	PLASTIC FILTER FL DISPLAY
906863-03	VIDEO SCART CARD	250481-01	PCB ASSY POWER SW & PHONE JACK
252466-02	SCREW, SELF TAPPING PAN HEAD M3 X 6 (OTY = 2)	252571-01	DOOR MEMORY CARD
906800-05	SCREW, SELF TAPPING BIND HEAD M4 X 6 (OTY = 4)	252572-01	LENS PLASTIC LED
	SCREW, PAN HEAD M3 X 6 (QTY = 2)	252573-01	BUTTON POWER SWITCH
250803	BOTTOM CHASSIS ASSY COTV (-01 — NTSC; -02 — PAL)	252574-01	PLASTIC SWITCH LINIT
250004-01	COROM MECHANISM ASSY CDTV	250483-01	PCB ASSY LED INDICATOR GREEN
250482-01	PCB ASSY MEMORY CARD	250669-01	FLEXIBLE BUSHING
252583-01	80TTOM CHASSIS CDTV	252666-01	HOLDER FRONT BEZEL
250806-01	POWER SUPPLY ASSY COTV	252668-01	NYLON WASHER
252584-01 252584-01	BRACKET METAL REG MKE TOP	906115-01	TOROID
252585-01	FOOT COTY W/ HOT STAMP FOOT RUBBER COTY	252570-01	PLATE LOGO COMMODORE
252635-01	RUBBER BUSHING	250479-01	PCB ASSY DISPLAY CDTV
252641-01	CABLE TIE	252630-01 906885-01	PLASTIC PCB HOLDER SW AND PHONE JACK
250484-01	PCB ASSY MAIN LOGIC COTV NTSC	906883-01	SCREW STP PH M2.6 X 8
250484-02	PCB ASSY MAIN LOGIC COTV PAL	906883-04	SCREW STP PH M3 X 8
250485-01	PCB ASSY MIDI INTERFACE		SCREW STP PH M3 X 10
250805-01	REAR PANEL ASSY COTY	250485-01	PC8 ASSY MIDI INTERFACE
250807-01	FRONT BEZEL ASSY COTV	252625-01	SCHEMATIC MIDI INTERFACE
390918-01	HOLDER BOTTOM CHASSIS	252626-01	PCB MIDI INTERFACE
906883-03	SCREW PAN HEAD M3 X 6	252166-03	CONN 5 PIN DIN
906883-04	SCREW PAN HEAD M3 X 10	252664-01 252628-01	PCB HOLDER PLASTIC
390903-01	SCREW ST PH M3 X 6 BLACK		HARNESS ASSY MIDI INTERFACE
251449-02			
		250483	PCB ASSY LED INDICATOR (-01 — GREEN; -02 — AMBER)
251541-04		252598-01	PCB LED INDICATOR
905665-04	LOCK WASHER EXT TOOTH M4	252598-01 325521-07	PCB LED INDICATOR LED GREEN 5 DIA ROHM
905665-04	LOCK WASHER EXT TOOTH M4 SCREW ST PH M3 X 8	252598-01 325521-07 325521-04	PCB LED INDICATOR LED GREEN 5 DIA ROHM LED GREEN 5 DIA SHARP
905665-04 906883-01 906885-02	LOCK WASHER EXT TOOTH M4 SCREW ST PH M3 X 8 SCREW ST M2.2 X 6	252598-01 325521-07 325521-04 252621-02	PCB LED INDICATOR LED GREEN 5 DIA ROHM LED GREEN 5 DIA SHARP LED AMBER 5 DIA ROHM SLH 56YC
905665-04 906883-01 906885-02 906670-03	LOCK WASHER EXT TOOTH M4 SCREW ST PH M3 X 8 SCREW ST M22 X 6 SCREW ST M22 X 6	252598-01 325521-07 325521-04 252621-02 252621-01	PCB LED WOLGATOR LED GREEN 5 DIA RICHM LED GREEN 5 DIA SHARP LED AMBER 5 DIA GHARP LED AMBER 5 DIA SHARP
905665-04 906883-01 906885-02 906670-03 250806-01	LOCK WASHER EXT TOOTH MA SCREW ST MM SY 8 SCREW ST M2 2 X 6 SCREW M2 2 X 6 POWER SUPPLY ASSY COTV	252598-01 325521-07 325521-04 252621-02 252621-01 252582-02	PCB LED INDICATOR LED GREEN 5 DIA ROHM LED GREEN 5 DIA SHARP LED AMBER 5 DIA ROHM SLH 56YC LED AMBER 5 DIA ROHM SLH 56YC LED AMBER 5 DIA SHARP HARNESS ASSY 2 CONDUCTOR
905665-04 906883-01 906885-02 906670-03 250806-01 252560-01	LOCK WASHER EXT TOOTH MS SCREW ST PM MS X 8 SCREW ST M2 X 8 SCREW M2 X 7 POWER SUPPLY ASSY COTV REGULATOR SYNCHING MKE	252598-01 325521-07 325521-04 252621-02 252621-01 252582-02 250481-01	POB LED MOICATOR LED GREEN S DIA ROMM LED GREEN S DIA SHARP LED GREEN S DIA SHARP LED AMBER S DIA ROMM SLH SGYC LED AMBER S DIA ROMM SLH SGYC HARNESS ASSY 2 CONDUCTOR POB ASSY POWER SWITCH AND PHONE JACK
905665-04 906883-01 906885-02 906670-03 250806-01 252560-01 252562-01	LOCK WASHER EXT TOOTH M4 SERREY STP MAY 8 SCREW ST M2 2 X 6 SCREW M2 2 X 6 FOWER SUPPLY ASSY COTV REGULATOR SWITCHING ME BRACKET METAL REG WAF BOTTOM	252598-01 325521-07 325521-04 252521-02 252621-01 252582-02 25481-01 252578-01	POB LED INDICATOR LED GREEN 5 DIA SHARP LED GREEN 5 DIA SHARP LED AMBER 5 DIA ROHM SLH 56VC LED AMBER 5 DIA SHARP AMBRES 5 DIA SHARP AMBRESS 5AVS CONDUCTOR POB ASSY POWER SWITCH AND PHONE JACK POB FOWER 5W AND PHONE JACK
905665-04 906883-01 906885-02 906670-03 250806-01 252560-01 252562-01 252632-01	LOCK WASHER EXT TOOTH M4 SCREW ST PM JX X SCREW ST JX X X SCREW M2 ZX X FORWER ZX X X X FORWER ZX X X X FORWER ZX X X X X FORWER ZX X X X X X X X X X X X X X X X X X X	252598-01 325521-07 325521-04 252621-02 252621-01 252582-02 250481-01 252578-01 252579-01	POS LEO MOCATOR LEO GRENS DO AR ROHM LEO ARRENT DO AR ROHM LEO ARRENT DO ARRENT DO ARRENT DE L
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905665-04 906883-01 906885-02 906670-03 250806-01 252562-01 252562-01 252632-01 252637-01 252638-01 906885-02 907272-07 251541-07	LOCK WASHER EXT TOOTH MA SCHEW ST HAV X	252598-01 325521-07 325521-07 325521-02 252621-01 252582-02 25481-01 252578-01 252578-01 252580-01 252580-01 252582-01 252680-01 252580-01 252580-01 252580-01	POR LED MOCATOR LED GREEN S DU ROHM LED GREEN
905665-04 906883-01 906885-02 906670-03 250806-01 252560-01 252562-01 252537-01 252538-01 905885-02 907272-07 251541-07 250804-01	LOCK WASHER EXT TOOTH MA SORIEW ST HAVE X SORIEW ST HAVE X SORIEW ME Z X 6 POWER SUPPLY ASSY COTY REQULATOR SWITCHING MAKE REPORT MAKE ASSY CORFOLA POWER HARMESS ASSY CORFOLA POWER HARMESS ASSY COMEAN SWITCH SORIEW STEP PH MA, 6 X 6 WASHER FLAT MAC 8 WASHER FLAT MC 8 WASHER FLAT MC 8 WASHER SPRING MC 8 CORFORM MECHANISM ASSY COTY	252598-01 325521-07 325521-04 452521-02 252621-01 252582-02 25481-01 252578-01 252580-01 252581-01 252582-01 252582-01 252575-01 252575-01	POR LEO MOCATOR LEO GRENS DO LA ROMA L
905665-04 906883-01 906885-02 906670-03 250806-01 252560-01 252562-01 252637-01 252637-01 252638-01 906885-02 907272-07 250804-01 252554-01	LOCK WASHER EXT TOOTH MA SCHEW ST HIJ X X SCHEW ST HIJ X X SCHEW ST HIJZ X	252598-01 325521-04 252521-04 252621-02 252621-01 252582-02 25481-01 252579-01 252580-01 252580-01 252582-02 25482-01 252575-01 252575-01 252576-01 252576-01	POS LEO MOCATOR LEO GRENS A DON ROM LEO MARIES SU A ROMA SI SEC LEO MARIES SU A ROMA SI SEC LEO MARIES SU A SAMPO HARNESS ASSY Z CONDUCTOR PLAS ASSY POWER SWITCH AND PHONE JACK POS BOWRES SW AND PHONE JACK HARNESS ASSY S CONDUCTORS HARNESS ASSY SON CONDUCTORS HARNESS ASSY SON CONDUCTORS HARNESS ASSY SON CONDUCTORS HARNESS ASSY SON CONDUCTORS PLATE GROUND SW AND PHONE JACK PLATE GROUND SW AND PHONE
905665-04 906883-01 906885-02 906670-03 250806-01 252560-01 252562-01 252632-01 252638-01 906885-02 907272-07 251541-07 252834-01 252854-01 252854-01 252855-01	LOCK WASHER EXT TOOTH MA SORIEW ST PH JOY X B SORIE	252598-01 325521-07 325521-04 252521-02 252621-02 252621-01 252588-02 252588-02 252588-01 252588-01 252588-01 252588-01 252588-01 252588-01 252588-01 252588-01 252588-01 252588-01 252588-01 252588-01 252588-01 252588-01	POR LED MOCATOR LED GREEN S DU A SHAPP LED GR
905665-04 906883-02 906870-03 252860-01 252560-01 252563-01 25253-01 25253-01 25253-01 25253-01 25253-01 25253-01 25253-01 25253-01 25255-01 25255-01	LOCK WASHER EXT TOOTH MA SORIEW ST HAY X X SORIEW ST HAY X X SORIEW ST HAY X X SORIEW MAY Z X 6 FOWER SUPPLY ASSY COTY REGULARDS SWITCHING MARE FOR STATE OF THE	252598-01 325521-07 325521-04 252521-04 252621-02 252621-02 252621-01 252538-02 252538-02 252538-01 252580-01	POR LED MOCATOR LED CHEEN S DU A ROMA LANGE S SASY C CONDUCTORS LANGE S SASY S SER LED 2 CONDUCTORS LANGE S SASY S SER LED 2 CONDUCTORS LANGE S SASY S CONDUCTOR
905665-04 906883-01 906885-02 906670-03 250806-01 252560-01 252562-01 252632-01 252638-01 906885-02 907272-07 251541-07 252834-01 252854-01 252854-01 252855-01	LOCK WASHER EXT TOOTH MA SORIEW ST PM OX X X X SORIEW ST PM OX X X X X X X X X X X X X X X X X X X	252598-01 325521-07 325521-04 252621-02 252621-01 252582-02 259481-01 252578-01 252580-01 252582-01 252582-01 252587-01 252587-01 252587-01 252587-01 252587-01 252587-01 252587-01 252587-01 252587-01 252587-01 252587-01 252587-01 252587-01 252587-01 252587-01 252587-01 252587-01 252587-01	POR LED MOCATOR LED CHEEN S DU A ROMA LANGE S SASY C CONDUCTORS LANGE S SASY S SER LED 2 CONDUCTORS LANGE S SASY S SER LED 2 CONDUCTORS LANGE S SASY S CONDUCTOR
90565-64 906883-01 906870-03 25806-01 252560-01 252563-01 252563-01 252563-01 252563-01 252563-01 252563-01 252563-01 252563-01 252563-01 252563-01 252563-01 252563-01 252563-01 252563-01 252563-01 252563-01 252563-01	LOCK WASHER EXT TOOTH MA SORIEN ST AND X B SORIEN ST AND X B SORIEN ST AND X B SORIEN WAS A ST AND X B SORIEN ST AND X SORIEN	252598-01 325521-07 325521-04 252521-02 252521-02 252521-02 252582-02 252582-01 252580-01 252580-01 252582-01 252582-01 252586-01 252582-01	POR LED MOCATOR LED GREEN S DUR ROMM LED GREEN'S DUR SAMM LED AMBER S DUR SAMM LANGES ASSY 2 COROLLICES POR ASSY POWER SW AND PHONE JACK POR POWER SW AND PHONE JACK PARTHORIS DUR SAM SOUTH AND PHONE JACK POR SAM SAMM SAMM SAMM SAMM SAMM SAMM SAMM
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905665-04 906683-01 906670-03 250806-01 252866-01 252566-01 252583-01 252583-01 252583-01 252583-01 252583-01 252583-01 252583-01 252583-01 252583-01 252583-01 252555-01 252555-01 252557-01 252557-01 252559-01 906883-01	LOCK WASHER EXT TOOTH MA SCHEW ST HAD X & SCHEW ST HAD X & SCHEW ST HAZ X S SCHEW MAZ Z S SCHEW MAZ Z S SCHEW MAZ Z S SCHEW MAZ S S SCHEW MAZ S S SCHEW MAZ S S SCHEW MAZ S S S S S S S S S S S S S S S S S S S	252598-01 1325521-07 325521-04 255621-02 255621-01 25582-02 25582-02 25588-01 252578-01 252588-01	POR LED MOCATOR LED CHEEN S DU A ROMA LANGE S SASY C CONDICITORS LANGE S SASY S CHEEN S DU A ROMA LANGE S SASY S CHEEN S DU A ROMA LANGE S SASY S CONDICITORS LANGES SASY S CONDICITORS LANGES S SASY CONDICITORS LANGES SASY CONDICITORS LANGES SASY CONDICITORS LANGES SASY CANDICITORS LANGES SASY CONTICORS
90566-04 906883-01 906883-02 906883-01 976885-02 906885-01 252806-01 252806-01 252852-01 252852-01 252852-01 252853-01 252853-01 252855-01 252855-01 252855-01 252855-01 252855-01 252855-01 252855-01 252855-01 252855-01 252855-01 252855-01	LOCK WASHER EXT TOOTH MASSERWEYS THE ASSERT STATEMENT OF THE SCHOOL STATEMENT	252598-01 325521-07 325521-07 325521-04 525621-02 525621-01 52582-02 52548-01 525579-01 525579-01 525581-01 525581-01 525576-01	POR LEO MOCATOR LEO GREEN S OU A ROHM LEO GREEN S OU A SHAMP LEO AMBRE S OL A SHAMP HARNESS ASSY COCHOLUCION POR FOWER SW AND PHONE JACK HARPHONES ASSY A SHOT AND PHONE JACK PARTHER SW AND PHONE JACK HARPHONES ASSY SHAULT OF A SHAMP MARKES ASSY SHAULT OF ZOUNGLOCTORS PARTE SANS MEMBRE OF ZOUNGLOCTORS PART SANS MEMBRE OF ZOUNGLOCTORS PARTE SANS MEMBRE OF ZOUNGLOCTORS PARTE SANS MEMBRE OF ZOUNGLOCTORS PARTE SANS MEMBRE OF ZOUNGLO
90566-04 906883-01 906883-01 906883-01 906885-02 906670-01 252560-01 252560-01 252560-01 252563-01 252563-01 252563-01 252563-01 252563-01 252555-01 252555-01 252555-01 252555-01 252556-01 252556-01 252556-01	LOCK WASHER EXT TOOTH MA SORIEW ST HAV X X SORIEW ST HAV X X SORIEW ST HAV X X SORIEW MAY Z X S S S S S S S S S S S S S S S S S S S	252598-01 1325521-07 325521-04 255621-02 255621-01 25582-02 25582-02 25588-01 252578-01 252588-01	POR LED MOCATOR LED CHEEN S DU A ROMA LANGE S SASY C CONDICITORS LANGE S SASY S CHEEN S DU A ROMA LANGE S SASY S CHEEN S DU A ROMA LANGE S SASY S CONDICITORS LANGES SASY S CONDICITORS LANGES S SASY CONDICITORS LANGES SASY CONDICITORS LANGES SASY CONDICITORS LANGES SASY CANDICITORS LANGES SASY CONTICORS
90566-04 906883-01 906883-02 906883-02 906883-01 25280-01 252850-01 252850-01 25283-01	LOCK WASHER EXT TOOTH MASSERWEYS THE ASSERT STATEMENT OF THE SCHOOL STATEMENT	252598-01 325521-07 325521-07 325521-04 525621-02 525621-01 52582-02 52548-01 525579-01 525579-01 525581-01 525581-01 525576-01	POR LEO MOCATOR LEO GREEN S OU REPMI LEO GREEN S O

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Commodore International Spare Parts List PCB Components PCB Assembly CDTV

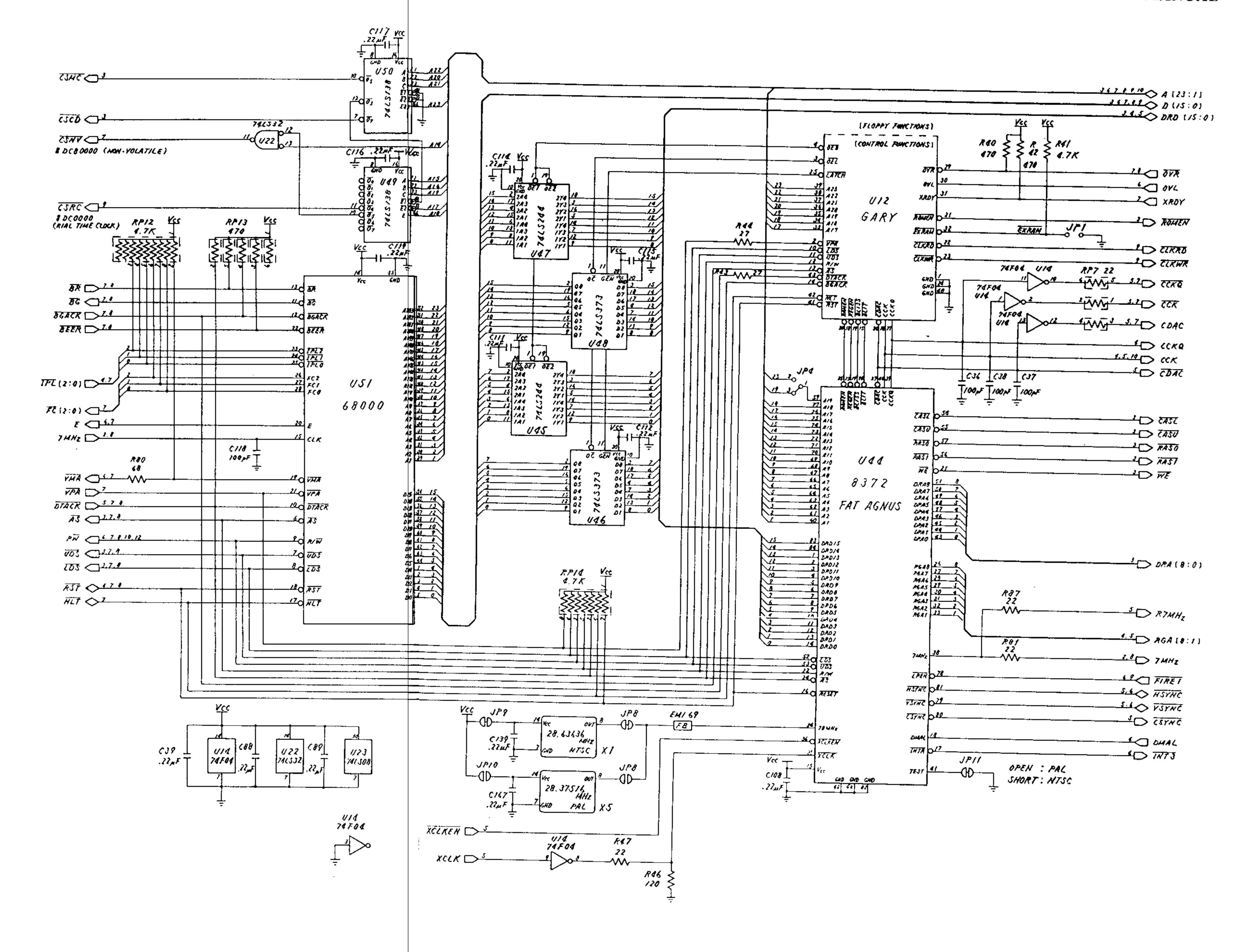
Commodore part numbers are provided for reference only and do not indicate the availability of spare parts from Commodore. Industry standard parts (Resistors, Capacitors, Connectors) should be secured locally. Part number information may vary according to country, some parts may not be available in all countries.

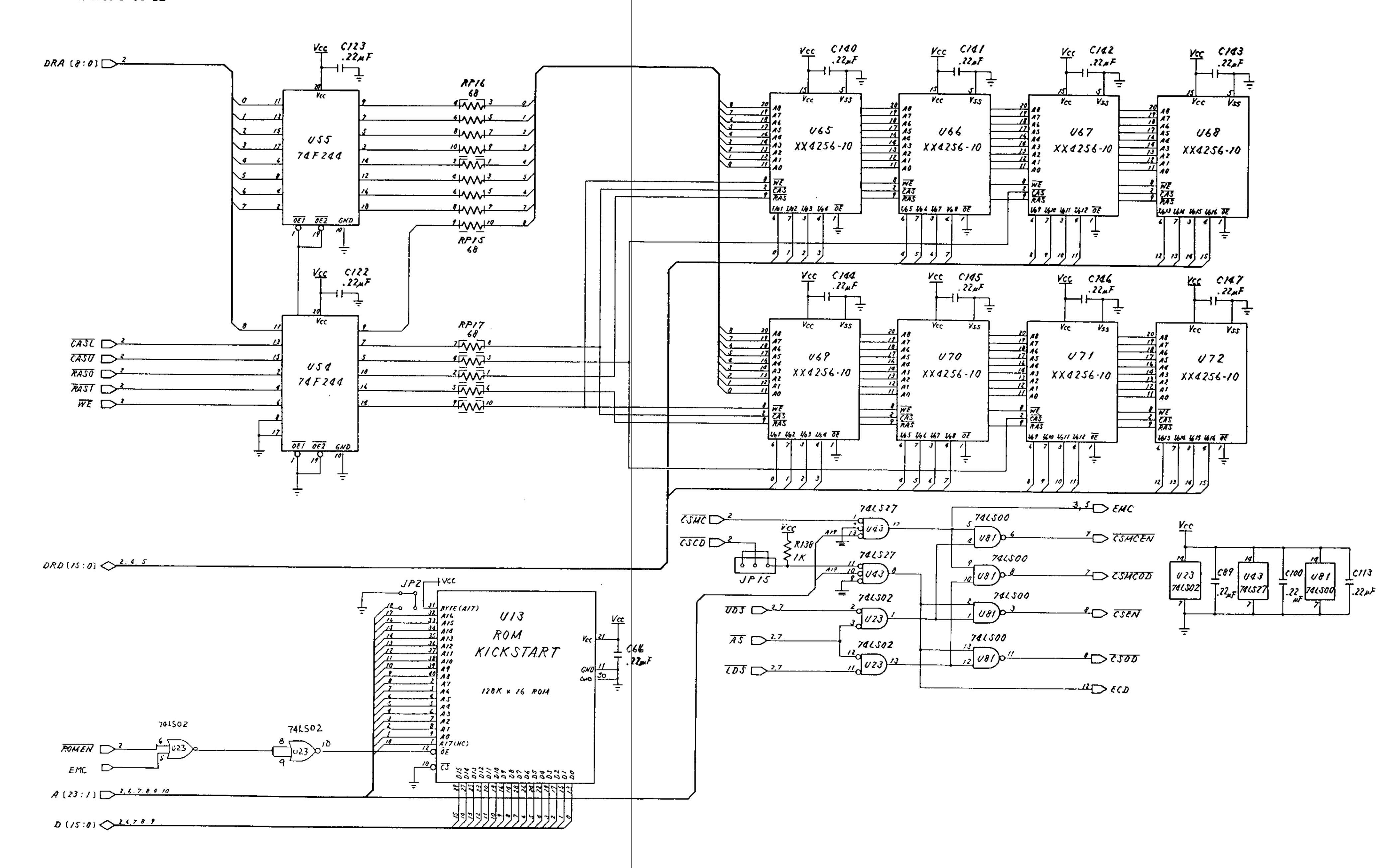
390084-03	ENTS 68000 CPU BMHZ			AS (Continued)	
318072-01	GARY 5917	U51	390851-02	DIN MINI 4 PIN	CN8
		U12	903345-20	HEADER ASSY 40 PIN 2.54 PITCH	CN9.13
252126-02	DENISE 8362R8	U8	252616-03	HEADER ASSY 3 PIN 2 PITCH	CN17.18.26
252127-02	PAULA 8364R7	U4	252616-02	HEADER ASSY 2 PIN 2 PITCH	CN19,23,24
315093-02	ROM KICKSTART V1.3	013	250669-04	HEADER ASSY 4 PIN 2.5 PITCH	CN21,22
318029-03	CIA 8520 A-1 2 MHZ	U9.10	250669-02	HEADER ASSY 2 PIN 2.5 PITCH	
390229-01	VIDEO HYBRID	HY1	252616-04	HEADEN ASST 2 PIN 2.5 PITCH	CN20
318099-01	DRAM 256K X 4 100NS ZIP	U65-72		HEADER ASSY 4 PIN 2 PITCH	CN27
318099-05			903332-02	HEADER ASSY 2 PIN 2.54 PITCH	JP15
318059-03	DRAM 256K X 4 80NS ZIP	SUB FOR 318099-01	380333-01	JUMPER	1
310009-02	F. AGNUS 8372	U44	OSCHIATO	AS, TRANSISTORS AND DIDDES	
390563-02	DMAC 4701	U36			
252606-01	ROM CDROM DRIVER, ODD	U35	325566-14		X1
252607-01	ROM CDROM DRIVER, EVEN	U34	252344-01	OSCILLATOR MODULE 28 37516 MHZ	X5
252608-01	CPU LC6554H	U62	325566-12	OSCILLATOR MODULE 28.63636 MHZ	l X i
252609-02	CPU 5500/1	U75	902707-01	TRANSISTOR PNP 2N3906	Q4.6
318073-01	RTC MSM6242B	1075	390192-01	TRANSISTOR NPN 2N3904	
		U61	252338-01	TOAMSICTOR ROUGE ACCUSES	01.7,9,10,12,13
252611-01	AMP M51568FP	U16		TRANSISTOR POWER 2SD789	Q8
252612-01	ATT TC9154AP	U19	390254-01	TRANSISTOR JEET MPF102	02.5
901523-01	TIMER NESSS	U76	902723-02	TRANSISTOR 2SA1309A	01
390086-01	AMP TL084/LF347	U5.6	902717-01	TRANSISTOR 2SA733	SUB FOR ABOVE
901523-10	AMP TL082/LF353N	U18	902707-01	TRANSISTOR 2N3906	SUB FOR ABOVE
01879-03			900928-02	DIODE ZENER 5.1V RD 5.1EB	D4
252614-01		U32	900922-02	DIODE ZENER 30V RD 30EB	
	DAC LC7883M	U17	900850-09		03
328156-02		U56.82	900850-09	DIODE SIGNAL 1N4448C	05
252620-01	SRAM 16K SK DIP 100NS	U78.79		DIODE SIGNAL 1N4148	D1,6-9
252620-02	SRAM 16K SK DIP 120NS	SUB FOR -01	252618-01	OSCILLATOR CERAMIC 3MHZ	X3
252620-03	SRAM 16K SK SIP 150NS	SUB FOR -01	252618-02	OSCILLATOR CERAMIC 4MHZ	X4
901521-29	74LS373		900560-01		x2
901521-16	74LS138	U46,48			1/4
301321-10	7413136	U49,50	RESISTOR		
318050-01		U54,5S	252657-01	S COM 82K 9 ELEMENT	RP23.24
901521-11	74LS157	U7	902441-17	S COM 470 OHM 5 ELEMENT	RP13
310003-01	74HC245	U1.2	902410-08	S COM 4.7K 9 ELEMENT	
901882-01	1488	u3	902441-10	C COM 4.7K & ELEMENT	RP3,9,10,26
901883-01	1489	U11	902441-10	S COM 120 OHM 5 ELEMENT	RP5
901521-28	74LS164		902410-13	S COM 10K 9 ELEMENT	RP6
		U31	902410-09	I S COM 3.3K 9ELEMENT	RP11,25
901521-52	74LS293	U42	252647-02	S COM 47K 3 ELEMENT	RP8
901521-06	74LS74	U24.28	902442-55	S COM 4.7K 7 ELEMENT	
390110-01	74F04	U14	902441-31		RP12,14,21
901521-46	74LS245	U52,53	902422-04		RP19,20,22,27,28
901521-38	74LS38	U15		INDIVIDUAL 22 OHM 4 ELEMENT	RP7
901521-31	74LS32		902422-06	INDIVIDUAL 68 OHM 4 ELEMENT	RP4
901521-03	74LS08	U22,25,39,73	902422-05	INDIVIDUAL 47 OHM 4 ELEMENT	BP1.2
001321-03		U21,80	390227-05	INDIVIDUAL 68 OHM 5 ELEMENT	RP15-17,29,30
901522-30	7407	U27,37	252648-01	INDIVIDUAL 68 OHM 3 ELEMENT	RP31
901521-22	74LS27	U41,43,64	902422-09	INDIVIDUAL 1K 4 ELEMENT	BP33
901521-02	74LS04	U26,40,63,58	252648-02	INDIVIOUAL 1K 3 ELEMENT	RP32
901521-21	74LS02	U23,30,74		MEDIATORAL IN 2 ECSINCIA!	
901521-01	74LS00	U29.81	RESISTORS	- WW ±5% UNLESS OTHERWISE SPECIF	IED
901521-13			390904-25	1M	RP96 115
318066-01		U45,47,57,59,60,77	390904-24		
		U38	390904-23	100K	R22.25
C SOCKETS	- -		390904-23		R51,67.68
390185-01	84 PIN PLCC	Turre	390904-22	47K	R92
390141-01		XU36,44	390904-20	15K	R53,60,20,30
	64 PIN SDIP	XU62	390904-19	12K	R52.54.59.61.18.28
		XU51	390904-18	10K	R4,5,12,14,16,17,23,26
251313-02	48 PIN DIP	XU4.8.12	11	1	
904150-06	40 PIN DIP	XU9.10.13.32,75	390904-17	4.7K	27,64,89,90,135,136,14
	32 PIN DIP MCH TOOL	XU34,35	39/304-17	3.70	R1.39,41,45,55-57,62,
	HOLDER CONN CARTRIDGE	AU34,33	11	1	53.77,84,85,117-119,
		I_	11	I	123,125,126,134,140
	TRANSFORMER OC-DC CONV	T1	390904-16	3.3K	R19,29,79,105,106
CONNECTOR	RS		390904-14	1.5K	R66,100
390851-03	DIN MINI 5PIN	CHZ	390904-13	l iK	D7 0 40 70 04 05 00
		CN7	1 1	1	R7-9.48,76,84,95,97,
390242-03	D SUB 23 PIN MALE	CN4	1 1 200000 40	200 01114	128-133,137
90241-03	D SUB 23 PIN FEMALE	CN1	390904-12	750 OHM	R15.24
90242-05	D SUB 25 PIN MALE	CN2	390904-05	33 OHM	R88
390241-05	D SUB 25 PIN FEMALE	CN3	390904-10	120 OHM	R46
52602-01	CARD EDGE 30 PIN 2.54 PITCH		390904-07	56 OHM	B78
252617-11		CN10,11	390904-09	100 OHM	
	KEL B811 SERIES 170L	GN12	390904-06		R50,65
252603-10	HOUSING MOLEX 52007	CN14,15,16		47 OHM	R36,37,98
252122-02	RCA JACK RED	CN6	390904-04	27 OHM	R43,44
252122-01	PCA JACK WHITE	CN5	390904-15	2.7K	R13
			390904-03	22 OHM	

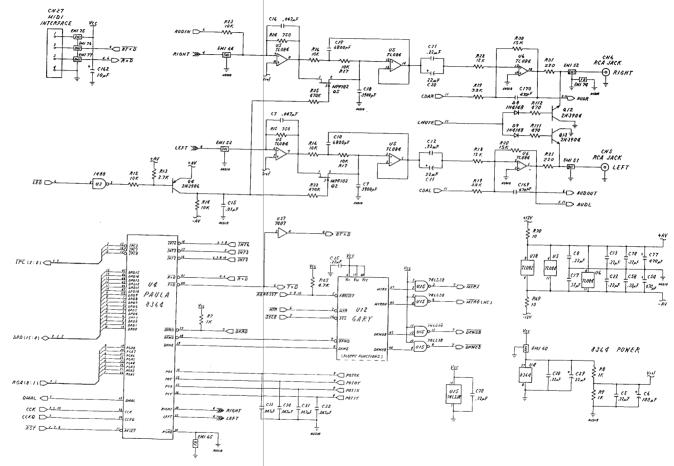
Commodore International Spare Parts List PCB Components (Continued) PCB Assembly CDTV

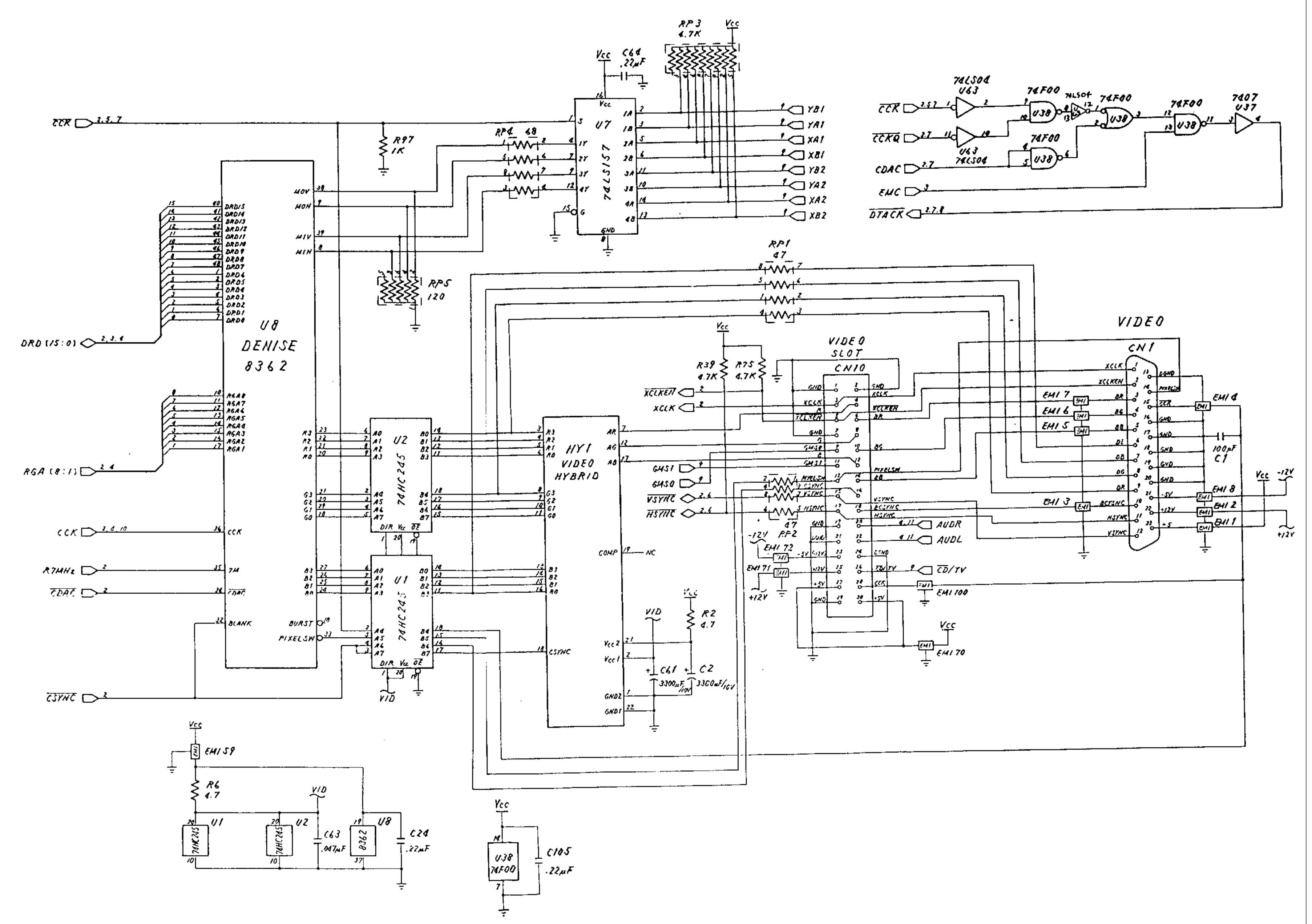
RESISTORS			CAPACITOR	IS (Continued)	
390904-02		869.70	900453.28	MLC AXIAL .BIUF	C15.74.154
390904-01		R2	900019.07	MLC AXIAL .047UF	
390904-11	470 OHM	R40,42,49,83,111,112	000013-07	MLC AXIAL 6800PF	C7,16,31-34,63
390904-21	22K	R58,121,124,127	900463-23		C10,19
901600-15	47 OHM, 1/2W ± 5%	R3.101 102	800403-23	MLC AXIAL 3900PF	C9,18,56,57
901600-52	33 OHM, 1/2W ± 5%	R3,101,102	900463-37	MLC AXIAL .1UF	C65,91,124,134,150,161,
901550-07			1		179
	12K	R82	900010-42	CER DISCS 22PF	C135
		R71	900010-64	CER DISCS 33PF	C131,132
	10K	R85,103,104	900010-35	CER DISCS 10PF	C126,128
901550-19	4.7K	R73-75,91,93,99,107.	900010-23	CER DISCS 680PF	C86
		108,116,141	900100-33	ELECT 47UF 16V	C1.2
	3.3K	R72	900010-61	CER RAD 0 1UF 25V	C3
	1K	R138,142	900463-10	MLC AXIAL 330 PF	C50 55
901550-94	\$8 OHM .	R80	900463-12	MLC AXIAL 470PF	C169.170
901550-56	47 OHM	R38,109	900463-16	MLC AXIAL .001UF	C46.47.49.51
901550-63	22 OHM	R81.87	900018 17	MLC RAD 47PF 50V	
901550-133	4.7 OHM	R6	200013-17	MLC RAD 33UF 50V	C48,52
901550-58		R94	300055-03	ELECT RAD 470UF 10V	C92
901550-52		R21.31	900100-58	ELECT RAD 4700F 10V	C76
901550-06	334	R120,122	900100-59	ELECT HAD 4.7UF 25V	C174
	- WW 5%, CARBON	H120,122		TRIMMER 5.8 - 45PF	C136
901550-02			MISCELLAN		
901550-89	3.3K	R1	312754-02	INSULATION TAPE	
901550-89	150 UHM	R2	905476-05	TUBING SHRINKABLE 3 X 20L	1
901550-105	33 UHM	R3	251584-15	WRAPPING WIRE AWG 28 L = 20MM	
901550-58		R4	251842-02	EMI FILTER 100PF	EMI9-53.55-50,64,70,75-
901550-56		R6	1		80.83-87.92-95.100
901550-52		R1,2,3	390297-02	EMI FILTER 100PF W/FERRITE	EMI1-8,71,72,81,82
901550-76		84	903025-01	FERRITE BEAD	EMI65,66,69,74,90,91
CAPACITOR	S	•	903025-01	FERRITE BEAD	FB1.2.3
390101-04	ELECT RAD 22UF 35V	C44 00 00 50 50 00 00 00	251842-02	EMI FILTER 100PF	EMI1.2.3.4
330101404	ELECT NAD 220F 30V	C11,20,29,59,60,79,80,	252627-01	PHOTOCOUPLER PC900V	PC1
000100.24	ELECT RAD 10UF SOV	177,178	252541-01	TACT SWITCH (USE W/252642-01) HOSHIDEN	FCI
000100-34	ELECT RAD 3300UF 10V	C14,85,155,162,163	252644-01	TACT SWITCH (USE W/252538-01) ALPS	
900100-57	ELECT RAD 33000F 10V	C2,61,69	252547-01	LED AMBER 1 X 5 SHARP	l
300100-33	ELECT RAD 4/UF 16V	C82,23,164	252621-02		LED 1
390101-02	ELECT RAD 100UF 16V	C6.40-43,72.81,84,125,	252621-01	LED AMBER 5 DIA SHARP	LED 2,3
		165,173,175	252548-01		SUB FOR ABOVE
900100-48	ELECT RAD 47UF 50V	C152	252542-01	HOLDER LED (USE W/252547-01)	
390101-03	ELECT RAD 470UF 16V	C54,68,77	202042-01	WIRE FLAT JUMPER 2 MM PITCH 10 CON-	
900100-11	ELECT RAD 4.7UF 25V	C171.172.176	1	DUCTS L = 100	!
900022-01	MLC RAD .22UF 50V	C3,4.8,12,13,17,21,22	252542-02	WIRE FLAT JUMPER 2 MM PITCH 10 CON-	
		58.71.73,75.78,119,140-	1	DUCTS L = 100	SUB FOR ABOVE
		147.184.5	251188-03	COIL INDUCTOR 100UH	LI
900022-03	MLC RAD .1UF 50V	C157.153	252599-01	SHIELD PLATE LOGIC PBC	1
900463-04	MLC AXIAL 100PF	C1.35.37.38.118	252601-01	INSULATION SHEET LOGIC PCB	l
	MLC AXIAL .22UF		390879-01	STAND OFF M2.5 X 0.45 X 13 (SUB USE	1
0.000E-03	MLU PAINE .2201	C5,24-28,30,35,39,64,	1	W/250486-01)	
		56.67,70,83,87,90,93	906883-01	SCREW SELF TAPPING PAN HEAD M3 X 8	
		117,120-123,127,129.	1	IOTY 41	
- 1		130,133,137-139,148,	906883-07	SCREW SELF TAPPING PAN HEAD M3 X 16	
		149,156,158,159,167,	3000003-07	(OTY 4)	
		180-183	1		I
			318277-17	POLYFOAM BLOCK	

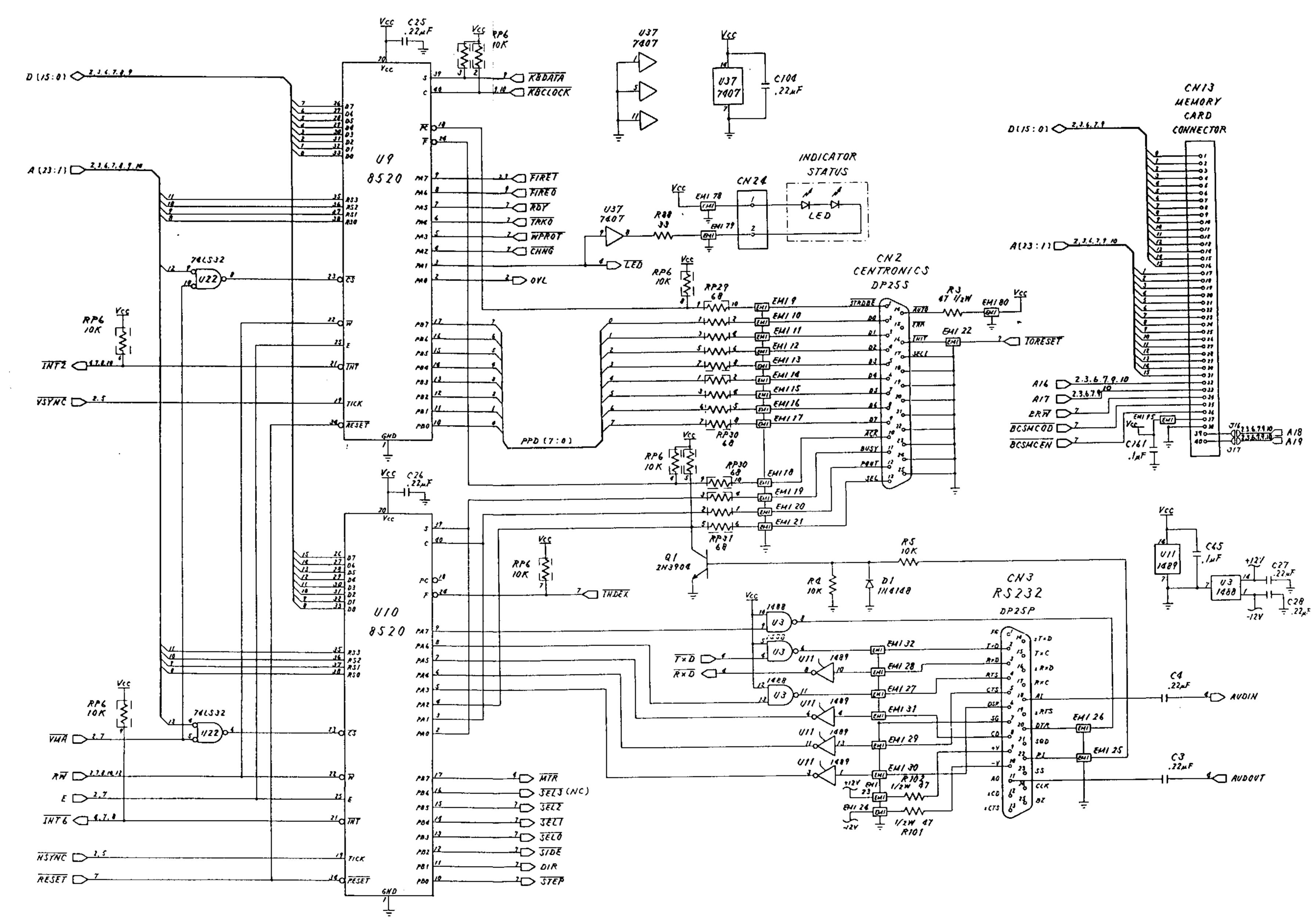
SIGNAL	DESCRIPTION	SIGNAL	DESCRIPTION	SIGNAL	DESCRIPTION
THHE	28.63635 MitripSSI /78.37516 Mitr (RAU Newton Clock	CEPTZEIGHT	Audio (famels	C158	
MAX	1 7 MHz Processor Clock			CDAL/CDAR	1680ta Dao Clock
23/01	Processor Address (60000)	HTRO		CD/TV	CD Audio left/Hight
3		8092819			Select CD/TV (see INCD)
	Osto Actnowledge (Parallel) Address Strobe (64010)	81V/818	Motor de Brive (floppy) Mouse (undrature Storols (joyaticks) Mouse (undrature Storols (joyaticks)	COMPIGIN	Config In
	Audio Input (RS212 tack)	OVL	Overley for over gan		Config Out
00007		000		CSCD	Chip Select CDROW Driver
	Audio Output (95232 jack)	PIXICIA	Overfile System Decodering Pinel Switch (video)	CSEN/CSOD	Chip Select CORON Driver Even/Odd
o .	Bus Grant (68000)	P070X/9070Y		CSHC	Chip Select Memory Card
ACK	Bus Grant Acknowledge (66500)	F071X/F0717	Pot List [oyslicks) Pot List [oyslicks) Paper Out parelie]	CSHCSN/CSHCCO	Chip Select Memory Card Even/Odd
133	Blitter Slowdown (chins)	70UT		CSNV	Son-Volatile Memory Select
17	Chip Memory Access (chips)	7007		CSSIC	Real Time Chip Select
	Bus Request (65000)		Parallel Fort Data (parallel) BUR Enable (chips)	CSXI	X7 Davice Chip Select No.0
SY	Device Dusy (parallel)	SARES		DACATE	Attinator Data (Dan)
SL/CASU	CAS lower/upper byte (DRAM)	DECEN	Chip Register Eneble (chips) Axi Internal/Espansion Lines (DEAM) Scive Heady [Toppy]	DACLOR	
K CASU		XAST/RASI		DACST	Attinator Strobe (Dag)
	Color Clock sks Cl (chips)	30Y		DATA	CD Audio Data
KQ.	Color Clock Quadrature aka C3 (chips)	9055T 908(9,1)			Dear Ima Data
AC No	7 May Qualrature Clock		Register Address Bus (China)		End of Process/AT Davice Chip Select t
	Redia Charge (Floppy)			GM5 (1:01	Genlock Mode Select (Remote Control)
XED/CLSKE		ROMEN		17957	Interface Reset Lamote Control
		675		THAC	Indicator Power/Status
YNC	Composite Sync (video)		Processor Reset (68208) Receive Data (85232)	THEO	Indicator CD/TV Node
3	Clear to Send Ics2321	EXO		INTO	CD Drive Reset
15:01	Processor Data (\$8000) Direction (floppy) Diakatte Read Data (floppy)		Processor Read/H/IVe (AREAD)	INTS	SCSI Interrupt
2		566		TOR/TOW	
(BD		8513:01		XBSE	DMac Rend/Write
2000		SIDE	Bife Select (floggy) Bife Select (floggy) Head Sign Comand (floggy) Track 0 Sense (floggy)	LHUTZ	Keylogard Sense
SYN		8777			Line Hote
ST.	Chip DHA Request (chips)	TRX9		18058	Audio Left/Right Clock Fower Sense (Logic)
	DIDA Address (CRAM, Chics)	TXX	Track 3 Mense (floppy) Transmit Data (RS232)	MPS MS [1:0]	
ATE OI		URA			Genlock Mode Select (Aniqu)
A.	Data set Beady (1222) Data Transfer Actrovicing (66000) Data Transfer Actrovicing (66000) Data Transfer Actrovicing (722) Peripheral & Clock (48000)	VPA	Va.id Namory Address (88000) Va.id Periphoral Address (88000)	MUTE	CD Mute
âck -				POWER	Main Louis Power On/Off
2		VETNC	Vertici Sync (video)	50(1:0)	Deac AT/SCSI Data
			Nr. te Eosble (DEAM)	VENTA	Attinator Data Clock (Sead Phone) Attinator Data Clock (Sead Phone)
EAR		RESOT	Nr. te Protect Sance (floppy)		
10.61	Expansion Memory Present	XCLX	External 28 May Clock TorniorkT	VF(2:1)	
8202F18F1	function Control (68000)	XCLSEN	External Clock Enable (penindly)		Attinator Data Clock (Read Phone)
	fire Button ()pysticks	XRDY	External Date Regor		
7	Frecessor Halt (68100)				Mouse Imput Signal
INC	Modisontal Sync (video) Disaette Index Moje (flopov)	AUDL/AUDR	Ames Radio Left/Right	NDACK	XT Device Data Acknowledge
DEX			Natio Deemphanip	KDREO	X7 Device Data Requirement
7[2,3,6]	Intercout Requests (chips)	AUSTA	CD Audio Play	INC	EMARCE MEMORY CARD
KKSET	1/0 Reset	1003		252	EMPLE CORON DRIVER (RON)
U12:01	Processor Intercupt Requests (68100)			MECANON	AMPRIC CATOM AFTINGE (BOH)
CLOCK		"BCSWCTW/WCSWC	D Buffered Chip Select Memory Card Even/Odd	WCCENO.	MALLE ENGREE C, LEGH
	Reyboard Sate (Reyboard) Reyboard Reset (Reyboard)	1000	Buffered Processor Reed/Write		
	Leyboard Teset (keyboard)	5574	Louis Voltage Serge		
18/UDS	Viper/Lower Data Stroke (68403)	100 CH	Buffer Transact Data (MIJI)	-	
cb cb	Fower Co LED	BIOS/8000	Bullered Opper/Lower Data Stroke		



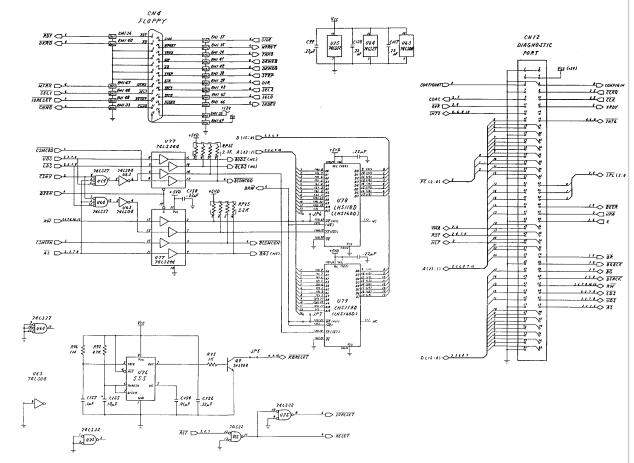








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